

### ABSTRACT OF THE DISCLOSURE

A method for processing a rubber mixture or compound for tyre manufacturing includes the steps of determining variation tolerances with respect to reference values for process parameters, detecting values of the process parameters, comparing detected values of the process parameters with the reference values and the variation tolerances, attributing an evaluation to a semi-finished product depending on compliance or noncompliance of the detected values with the reference values and the variation tolerances, classifying the semi-finished product on a basis of the attributed evaluation, and establishing successive steps for processing the semi-finished product depending on the classification of the semi-finished product. The processing includes at least a mixing cycle and an extrusion cycle for obtaining the semi-finished product. The cycles are controlled by the process parameters detected during execution of the cycles.

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